METHOD OF COLOR QUANTIZATION IN COLOR IMAGES

ABSTRACT

A method for assigning a color symbol to an image pixel comprises selecting a luminance
value from a discrete set of quantized luminance values; selecting a chrominance value from an
ordered discrete set of quantized chrominance values; and composing a color symbol from an
index of the selected luminance value and an index of an ordinal position of the selected
chrominance value. In particular embodiments of the invention, each discrete chrominance value
is selected from a Fibonacci lattice on a constant-luminance plane in a perceptually uniform color
space such as *Lab* or *Luv*.